Summary of Funding Information

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Template Name	BY2020
Is this investment a consolidated business case?	No
Consolidated Business Case Parent Investment(s)	
Investment Name	BAS - Budget Automation System
Investment Revision Number	39
Point of Contact	Chin, Derek
Revision Comment	
Full UPI/UII Code	020-000010061 00-00-02-16-02-00
Office of Investment	OCFO
Current EPA Investment Type	Medium
OMB Short Description	BAS - Budget Automation System, formerly titled BFS - Budget Formulation System, is EPA's Budgeting System. As of 2011, this investment is detached from OCFO Legacy Financial System business case. Retirement to occur in FY 2019 depending upon BFS hosting project.

Briefly describe the investment's purpose, goals, and current or anticipated benefits (quantitative and/or qualitative). Include the investment's specific contribution to mission delivery or agency management support functions and identify key customers, stakeholders, and other beneficiaries.

The purpose of the Budget Automation System is to provide an integrated budgeting and performance management system for the entire agency, with the goal of supporting the development of congressional justifications, OMB submissions, operating plans, and other important budget functions the offices of the agency require. The primary beneficiaries include, the agency, OMB, and Congress.

OCFO is replacing the Budget Automation System with the Budget Formulation System.

Based on the Agency IRM Strategic Plan, describe how the investment contributes to the agency target EA and its description in the Enterprise Roadmap. Include a description of how the investment includes or will achieve programmatic or technical innovation.

BAS contributes to the agency target EA by providing funding data on other EA investments. By providing this funding data, the EPA is able to appropriately evaluate the costs of all systems while still trying to achieve its strategic goals. This is best represented in CPIC submissions. CPIC submissions pull data from BAS to report on each of the agency's system costs in order to fulfill Enterprise Roadmap objectives.

The agency's budget formulation processes are used by all the investments to inform the agency's EA Program to support the Target architecture and enterprise Roadmap.

EPA's future Budget Formulation System (BFS) will use cloud computing as a technical innovation. As a cloud enabled

application, the EPA will be able to store its data offsite on a third party's server. This will reduce the agency's cost of purchasing and maintaining its own server. Also, BFS will no longer have a client-server relationship, but will be introduced as a web enabled application, allowing access to headquarter, regional, and teleworking employees. In addition, the EPA will be able to develop the BFS program in conjunction with other agencies in order to share costs. BFS is envisioned as a shared service across the federal government.

Investment Summary/Description

BAS will continue to operate in its current state in FY 2015, while also continuing development that starts in FY 2014 on the new BFS system. BAS will be transitioning from its old legacy status to an improved system.

The current BAS system has been in production since 1997 and will be retired for the new BFS system in 2017. The BFS system is being developed in a module phased approach. Until all BFS modules are completed in 2017, BAS will maintain minimum funding to operate.

The new BFS system will provide an integrated budgeting and performance management system for the entire agency for congressional justifications, OMB, operating plan, and other miscellaneous functions.

In which year did or will this investment begin? (Specify year - e.g., 2013)?	1997
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In which year will this investment reach the end of its estimated useful life? (specify year - e.g., 2021)

2020

BY 2017 Internal Summary of Funding Estimates Table (include non-pay and pay dollars)

Funding Type	2015 (PY)	2016 (CY)	2017 (BY)
Planning	0	0	0
DME (Excluding Planning)	0	0	0
O&M	824	824	500

Additional Questions

Functional/Business Sponsor Title

Functional/Business Sponsor Email	bloom.david@epa.gov
Functional/Business Sponsor Name	David Bloom
Functional/Business Sponsor Phone Number	2025641151
Functional/Business Sponsor Phone Number Extension	

Deputy CFO

Integrated Program Team (IPT) Contact Information

OMB ID	IPT Member Role	Title	Name	Phone Number	Extension	Email	Include In OMB Dashboard
	IT PM		Chin, Derek J	2025641895		chin.derek@epa.gov	Omit Synchronization
	Business Process Owner		Terris, Carol	2025640533		terris.carol@epa.gov	Omit Synchronization
	Contract Specialist		Herzfeld, Jackye	2025644599		herzfeld.jackye@epa.gov	Omit Synchronization
	IT Specialist		Herzfeld, Jackye	2025644599		herzfeld.jackye@epa.gov	Omit Synchronization
	Security Specialist		Kim, Eric	2025646203		kim.eric@epa.gov	Omit Synchronization

Primary Strategic Goal Multiiple-Goal IT Iinvestments

Primary BRM Mapping (FEA BRM v3.1) 101-Budget Formulation

Secondary BRM Mapping #1 (FEA BRM v3.1) 104-Strategic Planning

Secondary BRM Mapping #2 (FEA BRM v3.1)

Secondary BRM Mapping #3 (FEA BRM v3.1)

Secondary BRM Mapping #4 (FEA BRM v3.1)

The list of BRM mappings can be obtained from the following url: http://www.whitehouse.gov/omb/e-gov/fea

Did you conduct an alternatives analysis for this investment? Yes

If yes, describe the results of the alternatives analysis.

Two rounds of alternative analysis were performed to determine whether to replace BAS and how to replace it. One under the auspices of OMB's Budget Line of Business activity, which looks at systems across the federal government. The other was a more tailored EPA-specific analysis.

Other existing government and private sector systems were looked at as options by the EPA, but no other systems met EPA's requirements other than the current BAS / Budget Formulation System. Development of Budget Formulation System is a preferred option. Alternatives described, below.

If no analysis is planned, please briefly explain why:

List and describe three alternatives identified for this investment (may include Status Quo).

- 1. Status Quo Will require using Citrix to maintain usability when the EPA transitions to Windows 7. However, there are other issues associated with the software, and replacement is preferred over using existing oracle versions that have ongoing software problems. In addition, there are functionality enhancements the EPA needs that will provide significant efficiencies in staff time, and also enable offices to eliminate local systems. In addition, the current system is written to interact with Lotus Notes database which is currently being migrated to the Microsoft suite of tools. The status quo is becoming less of a viable option due to supporting applications and inherent outdated technologies.
- 2. Rewrite and update As described above, enhancements in functionality have been identified by the EPA that will save significant staff time, and provide an enterprise solution that replaces a number of locally maintained smaller systems. Other agencies have indicated interest in using a system with the functions in EPA's BAS / BFS if configured to their budget structures. The Budget Formulation System is being offered as a Shared Service to other agencies while utilizing the cloud hosting model, creating savings for the federal government overall and meeting the recent guidance from OMB. To meet that goal, BFS has been established as a new Working Capital Fund service to other agencies.
- 3. Modify existing government systems The review looked at systems in place across a number of other agencies. These systems were generally rudimentary and would prove more expensive to modify them than to proceed with the Budget Formulation System development.

What is the impact of NOT funding this investment?

The budgetary information of the agency cannot be formulated without the BAS investment. The same will apply to the replacement system once it is in place - the agency will not be able to formulate budgetary information without the

Budget Formulation System. Thus, the agency and external stakeholders will not be able to make the appropriate budget decisions without the Budget Formulation System.

Not replacing the legacy system will mean the agency continues to use outdated technology with increasing costs of maintenance, and forgoes the advantages and efficiencies expected from new functionality that is planned. In addition, the agency and the wider federal government would lose the potential benefit of providing a federal shared service in this area.

As noted before, this CPIC provides a transition from the agency's old legacy status to an improved system. The current BAS system has been in production since 1997 and will be retired for the new BFS system in 2017.

Does the investment have a Risk Management Plan?

Yes

What is the date of the risk management plan?

2/1/2015

Infrastructure-as-a-Service (IaaS) Costs Table

Cloud Model	PY	CY	ВҮ
Public Cloud	0	0	0
Private Cloud	0	0	0
Community Cloud	0	0	0
Hybrid Cloud	0	0	0

Platform-as-a-Service (PaaS) Costs Table

Cloud Model	PY	CY	ВҮ
Public Cloud	0	0	0
Private Cloud	0	0	0
Community Cloud	0	0	0
Hybrid Cloud	0	0	0

Software-as-a-Service (SaaS) Costs Table

Cloud Model	PY	CY	BY
Public Cloud	0	0	0
Private Cloud	0	0	0
Community Cloud	0	0	0
Hybrid Cloud	0	0	0

Project Execution Data

Projects Table

Projects Table

O M B I D	Proje ct ID	Proje ct Name	Objectives /Expected Outcomes	Proje ct Start Date	Proje ct Comp letion Date	Proj ect Life cycl e Cost	SDLC Metho dology	PM Na me	PM Level of Exper ience	PM Phon e	PM Exte nsio n	PM Email	Rele ase Eve ry 6 Mon ths?	Com men t	When was the last date that a revise d produ ct was deplo yed to produ ction?	Fun ded by TMF or IT WC F Fun din g	Com merci al Soluti on(s) Adopt ion	Com merci al Soluti on(s) Reaso ning	Com merci al Soluti on(s) Costs	Includ e In OMB Dashbo ard
	00001 0061A	Citrix	Web based version of BAS	11/10 /2010	12/31 /2013	48	Not Primari Iy a Softwa re Develo pment Project	Jack ye Her zfel d (reti red)	No certifi cation , but with 4 or more years PM experience (within the last five years)	20256 44599		herzfeld.jack ye@epa.gov	N/A			N/A				Omit Synchro nization
	00001 0061B	BAS Maint enanc e	Operate and maintain BAS for its remaining years while BFS is developed.	07/01 /2017	09/30 /2019	1503	Not Primari Iy a Softwa re Develo pment Project	Ed Cott rill	No certifi cation , but with 4 or more years PM experi ence (withi n the last five years)	20256 45002		cottrill.edwar d@epa.gov	N/A			N/A				Omit Synchro nization

Project Activities

Master Cost & Schedule: Comparison of Actual Work Completed and Actual Costs to Current Approved Baseline	* Costs in thousands
This table represents milestones at Work Breakdown Structure level 1	

Activ	T _		Activity Struct OM Current Baseline														
ity	Is Compl	Project	Activity	Descriptio	ure	В		Total Cost			Start Date		Co	mpletion D	ate	Include	
Num ber	ete	**	Name**	n**	ID**	ID* *	Planne d**	Projec ted	Actua l	Planne d**	Project ed	Actual	Planne d**	Project ed	Actual	In ITDB	
A.1	Yes	Citrix	Regional Implementation	Implement Citrix in all 10 regions	10061- A.1		\$48.00 0	\$48.00 0	\$48.0 00	11/10/2 010	11/10/2 010	11/10/2 010	12/7/20 11	12/7/20 11	12/7/20 11	Omit Synchroniz ation	
A.2	Yes	Citrix	Headquarter Implementation	Implement Citrix in the rest of the Offices in the Agency. This will coincide with the implementa tion of Windows 7, ensuring compatibilit y between the softwares.	10061- A.2		\$48.00 0	\$48.00 0	\$48.0 00	10/1/20 12	10/1/20	10/1/20 12	12/31/2 012	12/31/2 012	12/31/2 012	Omit Synchroniz ation	
B.1	Yes	BAS Mainten ance	Maintenance/Ret irement Phase 1	Maintain the remaining functions in BAS while the other requiremen to BFS are being developed.			\$257.0 00	\$372.0 00	\$331. 500	7/1/201 7	7/2/201 7	7/1/201 7	12/30/2 017	12/29/2 017	12/30/2 017	Omit Synchroniz ation	
B.2	Yes	BAS Mainten	Maintenance/Ret irement Phase 2	Plan for the retirement			\$65.00 0	\$297.0 00	\$300. 000	1/1/201 8	1/2/201 8	1/1/201 8	6/30/20 18	6/29/20 18	6/30/20 18	Omit Synchroniz	

Activ					C	OM				Cı	ırrent Bası	eline					\Box	
ity	Is Compl	Project	Activity	Activity Descriptio	Struct ure	e B	В	•	Total Cost			Start Date		Co	mpletion D	ate	Include	
Num ber	ete	ት ት	Name**	n**	ID**		Planne d**	Projec ted	Actua l	Planne d**	Project ed	Actual	Planne d**	Project ed	Actual	In ITDB		
		ance		of BAS. Decide how to retire BAS and gather the required resources. At the same time, keep BAS operating while other BFS modules need to be completed.												ation		
B.3	No	BAS Mainten ance	Maintenance/Ret irement Phase 3	Begin SLCM documentat ion and complete all retirement activities and cease operation.			\$32.00 0	\$149.0 00		7/1/201 8	7/2/201 8	7/1/201 8	9/30/20 18	12/30/2 018		Omit Synchroniz ation		
B.4	No	BAS Mainten ance	Maintenance/Ret irement Phase 4	Complete any decommissi oning activities required.			\$15.00 0	\$7.500		10/1/20 18	1/1/201 9		12/30/2 018	6/30/20 19		Omit Synchroniz ation		
B.5	No	BAS Mainten ance	Maintenance/Ret irement Phase 5	Complete any decommissi oning activities required.			\$3.750	\$3.750		7/1/201 9	7/2/201 9		9/30/20 19	9/29/20 19		Omit Synchroniz ation		

Project and Operational Risks

Project and Operational Risks

OMB ID	Risk Type Project Risk Name		Risk Category	Risk Probability	Risk Impact	Mitigation Plan	Is This Risk Closed?	Include in IT Dashboard	
	Operational Risk		Relationship with other financial systems	Dependencies and Interoperability between this investment and others	Low	Low	Maintain and ensure working relationship between BFS and other financial systems	No	Omit Synchronization
	Operational Risk		Security Risks	Security	Low	Low	The Information Security Officer maintains internal controls, security updates, and system security plan	No	Omit Synchronization
	Operational Risk		Server down time	Technology	Low	Low	In case the server goes down, the backup test server will be used, followed by the server in RTP, followed by physically going to Keylogic Systems in Columbia, Maryland.	No	Omit Synchronization
	Operational Risk		Sensitive budget data	Data/Info	Low	Medium	Ensure proper controls are in place and the correct security measures are taken.	No	Omit Synchronization
	Project Risk	BAS Maintenance	BFS Delayed Development	Schedule	Low	High	Continue operating BAS until BFS is completed.	No	Omit Synchronization
	Project Risk	BAS Maintenance	Unacceptable retirement actions		Low	Low	Work with OEI/EA on SLCM documentation to ensure BAS is phased out appropriately.	No	Omit Synchronization
	Project Risk	BAS Maintenance	Disposing Hardware	Project resources	Low	Low	Ensure all hardware that's no longer needed is done appropriately.	No	Omit Synchronization

Operational Performance Data

Operational Performance Metrics

Provide results specific metrics which are appropriate to the mission of the investment and its business owner or Customer. Generally these metrics should be provided by the investment's business owner and will reflect performance in the broader business activities and not IT-specific functions. The best results specific metrics will support the business case justification and could be the foundation of a quantitative approach to defining benefits in a cost-benefit analysis. Unlike in private industry where identified benefits accrue to the organization, government benefits may accrue to the public. Therefore, results-specific metrics may demonstrate the value realized external to the Federal Government. The table must include a minimum of two results-specific metrics, one of which should reflect customer results.

Each metric description should help the user understand what is being measured. In this field, describe the units used, any calculation algorithm used, and the definition or limits of the population or "universe" measured.

The unit of measure should be characterized (e.g. number, percentage, dollar value etc) for each metric. Each metric listed in the table must also indicate how often actual measurements will be reported (monthly, quarterly or semi-annually), as well as baseline, targets and actual results. The "Actual for PY" should be final actual measurement from the previous year or the average actual results from the previous year. Describe whether a successful actual measurement would be "over the target" or be "under the target" in "Measurement Condition." "Comment" field is required for performance metrics where target not expected to be met. All data will be displayed on the IT Dashboard.

Operational Performance

OMB ID	Metric ID	Metric Name	Metric Description	Unit of Measure	Performance Measurement Category Mapping	Agency Baseline Capability	Target for 2018	Target for 2019	Measurement Condition	Reporting Frequency	Agency Strategic Objective or Priority Goal	Is the Metric Retired?	Include In OMB Dashboard
			Number of Responsible Planning and Implementation Offices (RPIOs) using Citrix	Number of Offices					Over target	Semi- Annual			Omit Synchronization
			Percent of the time the server is up and running	Percentage					Over target	Semi- Annual			Omit Synchronization
	A	Financial Actuals Reporting	Financial actuals reporting (e.g. SNC) completed accurately and on time each quarter	Quarterly Reports	Customer Satisfaction (Results)				Over target	Quarterly		No	Omit Synchronization
	В	Ad Hoc Report Retrieval Time Using Citrix	Time it takes to retrieve data in the Ad Hoc Report module using the Citrix web environment. Report used for testing is under Derek Chin's private reports titled: CPIC TESTING	Seconds	Customer Satisfaction (Results)				Under target	Annual		No	Omit Synchronization
	С	External Budget Submissions	External budget submissions (OMB and Congressional Justification) are created and submitted on schedule.	Submissions	Strategic and Business Results				Over target	Annual		No	Omit Synchronization
	D	Final End of Month Actual Results	Compile the final end of month actual results in BAS.	Data Type	Customer Satisfaction (Results)				Over target	Monthly		No	Omit Synchronization
	Е	Citrix Launch Response Time	The time it takes the BAS application to load from the Citrix environment	Seconds	Customer Satisfaction (Results)				Under target	Annual		No	Omit Synchronization
	F	Citrix License Cost	The relatively inexpensive cost for renewing Citrix (\$8,000) provides the entire agency, including regional users and offsite users, centralized access without the difficulty of coordinating with secondary IT	Dollars	Financial Performance				Under target	Annual		No	Omit Synchronization

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OMB ID	Metric ID	Metric Name	Metric Description	Unit of Measure	Performance Measurement Category Mapping	Agency Baseline Capability	Target for 2018	Target for 2019	Measurement Condition	Reporting Frequency	Agency Strategic Objective or Priority Goal	Is the Metric Retired?	Include In OMB Dashboard
			administrative maintenance (dll updates, etc.)										

As actual results are measured at the appropriate frequency, report them using the following table. Also use this table when applicable to provide any historical actual results for a new metric (optional). When adding a new metric, include historical actual result information as available.

Operational Performance Actual Results Table

OMB ID	Performance Metric	Actual Result	Date of Actual Result	Comment	Include on IT Dashboard	
	Financial Actuals Reporting	4	4/8/2015		Omit Synchronization	
	Ad Hoc Report Retrieval Time Using Citrix	5	4/8/2015	Results may vary depending on the location of the user. Users that are further away from headquarters, such as region 9 and region 10, will experience slightly longer retrieval times due to the data traveling across a longer physical distance.	Omit Synchronization	
	External Budget Submissions	2	4/8/2015		Omit Synchronization	
	Final End of Month Actual Results	13	4/8/2015		Omit Synchronization	
	Citrix Launch Response Time	30	4/8/2015		Omit Synchronization	
	Citrix License Cost	\$8,000	4/8/2015		Omit Synchronization	

EPA 200 Compliance

EPA 200 Compliance Comments

EPA 200 Compliance Comments

Kimberly Dubbs sent compliance on 4/25/2016